U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR JULY, 1900.

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CUBA SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

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BY

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HAVANA, CUBA, W. I.
WEATHER BUREAU OFFICE.
1900.

U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU

CENTRAL OFFICE: WASHINGTON, D. C.

CUBA SECTION

WM. B. STOCKMAN, Section Director.

HAVANA, CUBA, W. I.

VOL. II. HAVANA, CUBA. No. VII.

GENERAL SUMMARY OF METEOROLOGICAL AND CROP CONDITIONS.

During the first week of the month the conditions were favorable and crops made a rapid and satisfactory growth; and much needed cleaning, cultivating, etc., were rapidly carried forward. During the second week the need of rain was felt in NW. Pinar del Rio, parts of W. Matanzas, NE. and W. Santa Clara and NW. and SE. Santiago. In SW. Matanzas the growth of spring cane was retarded; in NW. Matanzas canes, especially spring on high lands, were being prejudicially affected, as were new canes in NW. Santa Clara; in parts of SE. Santiago all canes greatly needed rain. At the end of the third week all canes were in an excellent condition, except in parts of SE. Santiago where more rain was needed; more moisture also was needed in parts of NW. Santa Clara. At the end of the fourth week rains were needed in parts of NW. Matanzas, NW. Santa Clara, NE. Puerto Principe, NW. Santiago and generally in SE. Santiago. During the last week very beneficial rains everywhere occurred, except in parts of SW. Pinar del Rio and NW. Santiago. The corn crop is reported a total loss in NW. Santiago.

Remarks of Correspondents.

San Cayetano; Sr. Miguel González.—There is a good crop of corn, malangas and other small crops. Extensive areas of ground are being prepared for tobacco seed plots.

Pinar del Rio; Sr. Dr. Eduardo Gomis. — Weather favorable for all plantings. Tobacco selecting continues; sowing of seed plots has begun. Frequent high and gusty winds during the month.

Guanajay; Sr. Pedro Núñez y Lostado.—On the 18th a whirlwind occurred which destroyed a tobacco curing house in the country.

Plantation "Providencia" (Güines); Sr. Pascual Goicoechea.—First weeding is nearing completion, and cultivation has begun. Lanes, also, are being cleaned.

Central 'Rosario' (Aguacate); Sr. Ramon Pelayo.—New canes showed extraordinary growth during the month; many fields after being thoroughly weeded and cultivated are now closed in. The weather has been propitious and corn and small crops will be abundant.

Plantation "Australia" (Jagüey Grande); Sr. Máximo Sokol.—All plantings were in need of rain during the first decade, and early sown corn was lost. Rains occurred during the 2nd and 3rd decades and generally were beneficial. Late sown corn has improved, and canes present a good prospect.

Plantation "Santa Gertrudis" (Banagüises); Sr. Miguel Mendoza.—The condition of canes, generally, is very good. Heavy rains during latter days of month have somewhat injured some replantings. Rain is not desired for the next fifteen days. Days and nights, both, very warm.

Colonia "Guabairo" (Cienfuegos); P. Alduncin, Esq.—The month has been mostly partly cloudy, with enough rain to benefit plantings in general. Roads are in terrible condition, owing to the heavy rains. Strong winds have done some damage to tall canes.

DEPARTAMENTO DE AGRICULTURA DE LOS E. U.

SERVICIO CLIMATOLOGICO Y DE COSECHAS

DEL

WEATHER BUREAU

OFICINA CENTRAL: WASHINGTON D. C.

SECCION DE CUBA

WM. B. STOCKMAN, Director de Sección.

HABANA, CUBA.

TOMO II. HABANA, CUBA. NUM. VII

RESUMEN GENERAL DE LAS CONDICIONES METEOROLOGICAS Y DE LAS COSECHAS.

En la primera semana fueron favorables las condiciones, creciendo rápida y satisfactoriamente todas las cosechas; y se adelantaron mucho los chapeos, aporques, &a., de que tenian necesidad. En la segunda hubo falta de lluvias en NO. Pinar del Rio, partes del O. Matanzas, NE. y O. Santa Clara y NO. y SE. Santiago: en el SO. Matanzas estaba atrasado el desarrollo de la caña de primavera: sufría bastante la caña, y especialmente la de primavera de las tierras altas, en el NO. Matanzas, y la nueva del NO. Santa Clara: en partes del SE. Santiago tenia la caña mucha necesidad de lluvias. Al fin de la tercera semana estaba toda en excelente estado; menos en partes del SE. Santiago, donde necesitaba mas lluvias, asi como en partes del NO. Santa Clara. Al final de la cuarta hacían falta lluvias en partes del NO. Matanzas, NO. Santa Clara, NE. Puerto Príncipe, NO. y en todo el SE. Santiago. Durante la última semana hubo lluvias generales, beneficiosas, ménos en partes del SO. Pinar del Rio, y NO. Santiago, de donde informan que se perdió todo el maíz.

Informes de los Corresponsales

San Cayetano.—Sr. Miguel González.—Hay una buena cosecha de maíz, malangas y otros frutos menores. Se prepara mucho terreno para semilleros de tabaco.

Pinar del Rio.—Sr. Dr. Eduardo Gomis.—Tiempo favorable á todos los plantíos. Continúan las escojidas de tabaco; y se han empezado á echar semilleros. Frecuentes vientos fuertes, rachados en el mes.

Ingenio "Providencia", (Giiines).—Sr. Pascual Goicoechea.—Está al terminar la primera mano de chapeo, y se ha empezado á aporcar. Tambien se limpian las guardarayas.

Central "Rosario" (Aguacate)--Sr. Ramon Pelayo.—Las cañas nuevas han crecido extraordinariamente en este mes. Ya han cerrado muchos campos que estaban limpios. El tiempo ha sido propicio; y el maíz y frutos menores serán abundantes.

Ingenio "Australia" (Jagiiey Grande).—Sr. Máximo Sokol.—Todos los plantíos tenian necesidad de lluvias en la primera década, perdiendose el maíz temprano. En la 2ª y 3ª décadas hubo lluvias que fueron beneficiosas en general. El maíz tardío ha adelantado y la caña tiene buen aspecto.

Ingenio "Sta. Gertrudis" (Banagiiises).—Sr. Miguel Mendoza.—El estado de la caña es muy bueno, en general. Las abundantes lluvias de fines del mes han perjudicado algo las resiembras. No hacen faltas lluvias en quince días. Tanto estos como las noches son muy cálidos.

Colonia "Guabairo" (Cienfuegos).—Sr. P. Alduncin.—La mayor parte del mes ha sido parcialmente nublada, con lluvias suficientes para beneficiar los plantíos en general. La abundancia de ellas ha puesto malísimos los caminos. Los vientos fuertes han dañado algo á las cañas grandes.

Mariposas de todos colores y tamaños en número extraordinario, en los campos y casas.

Butterflies of various colors and sizes have been exceptionally numerous in the fields and buildings.

Sagua la Grande; Sr. F. P. Machado. — Opportune rains have been beneficial to crops, but as the rains have been local in character, some districts are in need of moisture. The corn crop prospects are good. Ratoons and new canes present good prospects. Extensive areas of ground are being prepared for winter cane.

Santa Clara; Sr. Vicente G. Abreu.–Almost every day this month was very warm; but with pleasant night temperatures, due, perhaps, to the rains which moderated the temperature. Full waterholes and fields well fertilized by the rains, give hopes of good crop yields.

Central "Fé" (Camajuaní); Sr. José Ma. Espinosa.—There was an insufficiency of rainfall for plantings, especially for cane.

Moron; Sr. B. Grandal.—Although but 2.90 inches of rain fell during the month it was sufficient for crop needs; also placing soil in condition for sowing. Tobacco is all harvested and ready for selecting. Ground is being prepared for tobacco seed plots. Bananas, sweet potatoes, cassava, corn and pineapples are abundant, but on account of poor roads and lack of transportation facilities it is impossible to get these crops to larger towns to find a market.

Manzanillo; Sres. Beattie & Co.—Thunderstorms occur generally at, or after, 3 p.m. High northerly winds attended a rainsquall on the 24th; and it became much cooler at night.

Plantation "Santa Lucía" (Gibara); Sr. Jorge J. Hernández.—Cane grinding and planting continue in this district; in Sama clearing forests; and in Banes cane planting and preparation of ground.

Guantánamo; Theodore Brooks, Esq.—On the night of the 26th, at 9 o'clock, the wind blew with hurricane force about 15 minutes, doing considerable damage to roofs.

Plantation "Los Caños" (Guantanamo); Sr. Pablo Odoardo.—During the week of 1st to 7th high S. winds blew down some cane. On the night of the 26th rain, accompanied by high gusts of SE. wind, began at 8.30 o'clock and continued for half an hour.

MISCELLANEOUS PHENOMENA AND NOTES.
Stations and dates of occurrence.

SAN LUIS (Pinar del Rio).—High winds during the week ending 28th.

GUANAJAY.—Lightning every day during the month. Rainbows on 26th and 30th.

HAVANA. — Velocities, directions and dates of winds of 25 miles, or more, per hour: 27—NE.—1st, 30—NE.—2nd, 29—NE.—3rd, 28—NE.—4th, 36—NE.—5th, 31—NE.—6th, 26—NE.—8th, 29—E.—9th, 26—E.—10th, 26—NE.—12th, 26—NE.—16th, 32—NE.—17th, 28—NE.—18th, 27—NE.—19th, 28—NE.—21st, 25—NE.—22nd, 29—NE.—27th, 27—NE.—29th. The mean temperature, 80.0°, was 2.4° below the normal for the month; the precipitation, 5.40 inches, was 0.34 inch above the normal monthly amount.

UNION DE REYES.—Very high gust of wind from the SE., lasting 15 minutes, on the 15th.

PLANTATION "AUSTRALIA" (Jagüey Grande).—High wind on the 10th.

"HORIZONTE" (Sierra Morena).—High winds frequent during the month.

CASCAJAL.—Rainbow on 14th.

CIENFUEGOS.–Velocities, directions and dates of winds of 25 miles, or more, per hour: 25—W.—19th, 26—E.—24th.—Solar halo on 17th.

COLONIA "GUABAIRO" (Cienfuegos).—High NE. winds on 29th.

PUERTO PRINCIPE.—Velocities, directions and dates of winds of 25 miles, or more, per hour: 26—E.—7th, 25–S.–9th, 25—E.—25th, 33–E.–26th.–Haze on 11th and 28th. Light fog on 22nd; dense fog on 24th.

Sagua la Grande.—Sr. F. P. Machado.—Lluvias oportunas, beneficiosas á todas las cosechas; pero habiendo sido locales, hay puntos que están necesitados de ellas. El aspecto del maíz es bueno; asi como el de los retoños y cañas nuevas. Se prepara mucho terreno para caña de frio.

Santa Clara,—Sr. Vicente G. Abreu.–Casi todos los días del mes han sido muy cálidos; pero con temperatura agradable por las noches. Aguadas y campos bien fertilizados, dan esperanzas de buenas cosechas.

Central "Fé" (Camajuaní)—Sr. J. Mª Espinosa.—Las lluvias han sido insuficientes para las siembras; y especialmente para la caña.

Moron.—Sr. B. Grandal.—Aunque solo cayeron 2.90 pulgadas de agua en el mes, fué lo suficiente para las cosechas; y tambien para que se pudiese arar. Todo el tabaco está recojido, y listo para escojerlo. Se preparan terrenos para semilleros. Plátanos, boniatos, yuca, maíz y piñas en abundancia; pero á causa de la escasez de caminos y poca facilidad de transporte, es imposible llevar estos frutos á los mercados de las poblaciones grandes.

Manzanillo.—Sres. Beattie & Cª.—Turbonadas generalmente de las 3 de la tarde en adelante. Fuerte N. con chubascos, el 24, siendo muy fresca esa noche.

Ingenio "Sta. Lucia" (Gibara)—Sr. Jorge J. Hernández.—Esta finca continúa moliendo y sembrando caña. Siguen los desmontes en Samá; y la preparación de terrenos y siembras de caña, en Banes.

Guantánamo.—Sr. Teodoro Brooks.–Hubo viento huracanado por 15 minutos á las 9 p.m. del 26, causando considerable daño en los techos de las casas.

Ingenio "Los Caños" (Guantánamo)–Sr. Pablo Odoardo. En la semana del 1º al 7 acostaron alguna caña los vientos fuertes del S. En la noche del 26 llovió durante media hora, que empezó á las 80 y 30, con fuertes rachas de viento S.

Fenómenos diversos y notas

Estaciones y fechas en que ocurrieron

SAN LUIS (Pinar del Rio).–Vientos fuertes en la semana que terminó el 28.

GUANAJAY.–Relámpagos diariamente en el mes. Arco-iris el 26 y 30.

HABANA.—Velocidad, dirección y fecha de vientos de 25, ó mas, millas por hora: 27—NE. el 1º; 30—NE.—el 2, 29—NE.—el 3, 28—NE.–el 4, 36–NE.–el 5, 31–NE.–el 6, 26–NE.–el 8, 29—E.—el 9, 26–E.–el 10, 26–NE.–el 12, 26–NE.–el 16, 32–NE.–el 17, 28–NE.–el 18, 27—NE.—el 19, 28—NE.—el 21, 25–NE.–el 22, 29–NE.–el 27, 27–NE.–el 29. La temperatura media, 80,°0, fué 2,°4 inferior á la normal del mes: la precipitación, 5.40 pulgadas, fué 0.34 pulgada mayor que el total normal mensual.

UNION DE REYES.–Rachas muy fuertes de viento del SE. por espacio de 15 minutos, el 15.

INGENIO "AUSTRALIA" (Jagüey Grande).—Viento fuerte el 10.

"HORIZONTE" (Sierra Morena).–Frecuentes vientos fuertes en el mes.

CASCAJAL.—Arco-iris el 14.

CIENFUEGOS.—Velocidad, dirección y fecha de vientos de 25 ó mas, millas por hora: 25—O.—el 19, 26– E.–el 24. Halo solar el 17.

COLONIA "GUABAIRO" (Cienfuegos).—Fuerte viento NE. el 29.

PUERTO PRINCIPE.—Velocidad, dirección y fecha de vientos de 25, ó mas, millas por hora: 26—E.—el 7, 25—

SANTA CRUZ DEL SUR.—High NE. winds, accompanying rain squalls, on 7th and 8th. Rainbow on 13th.

NUEVITAS.—Light fog during early morning of 9th. Double rainbow the afternoon of 22nd.

MANZANILLO.—Fog on the 18th and 30th.

PLANTATION "SANTA LUCÍA" (Gibara).—Lunar halo on 7th. Rainbow on 25th.

SANTIAGO DE CUBA.—Velocities, directions and dates of winds of 25 miles, or more, per hour: 25–SW.–25th.

Thunderstorms were reported from the following stations on the dates indicated.

SAN CAYETANO.—9th, 10th, 11th, 12th, 26th, 27th.

PINAR DEL RIO.—1st, 5th, 14th, 16th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 27th, 29th, 31st.

GUANAJAY.—3rd, 4th, 6th, 8th, 9th, 11th, 15th, 17th, 18th, 19th, 20th, 26th, 27th, 28th, 30th.

HAVANA.—1st, 2nd, 6th, 8th, 9th, 13th, 15th, 17th, 18th, 19th, 20th, 24th, 25th, 27th, 29th.

CENTRAL "LIMONES" (Limonar.)—1st, 2nd, 4th, 9th, 10th, 11th, 13th, 14th, 17th, 18th, 19th, 23rd, 24th, 25th, 29th.

CARDENAS.—1st to 7th, to SE. and S. 22nd to 28th, frequent, with heavy rainsqualls.

ECHEVERRÍA.—15th to 21st, several, without rain.

PLANTATION 'SANTA GERTRUDIS' (Banaguises).–23rd, 24th, 25th, 26th, 27th.

CASCAJAL.—8th, 14th, 16th, 18th.

CIENFUEGOS.–1st, 2nd, 3rd, 4th, 7th, 8th, 9th, 10th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 22nd, 23rd, 24th, 27th, 29th.

CENTRAL "SOLEDAD" (Cienfuegos).—15th to 21st, almost every day.

COLONIA "GUABAIRO" (Cienfuegos).—1st, 8th, 13th, 14th, 16th, 18th, 19th, 23rd, 25th 27th. Distant on 2nd and 3rd.

CRUCES.–Electrical discharges on 17th, 25th, 27th.

SAGUA LA GRANDE.—1st, 3rd, 6th.

MORON.—7th, 8th, 10th, 14th, 22nd, 24th, 25th, 26th.

PUERTO PRINCIPE.—3rd, 9th, 17th, 18th, 22nd, 25th, 26th, 30th, 31st.

SANTA CRUZ DEL SUR.—On 9th, accompanied by heavy NE. rainsquall. 13th. 15th to 21st, every day. 22nd to 28th, frequent to E. and S.

NUEVITAS.—5th, 6th, 7th, 9th, 10th, 21st, 25th, 27th, 29th, 30th, 31st.

MANZANILLO.—1st, 2nd, 3rd, 5th, 7th, 9th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 21st, 23rd, 24th, 25th, 29th, 30th, 31st.

SANTIAGO DE CUBA.—6th, 23rd, 24th.

GUANTANAMO.— 7th, 8th, 13th, 17th, 23rd, 24th, 26th, 31st.

LOS CAÑOS.—1st to 7th, to N. and S.

Barometer reduced to Sea-level and Standard Gravity and Temperature.

STATIONS.	Mean	EXTREMES			
		Highest	Date	Lowest	Date
Havana	30.01	30.10	19	29.90	10
Cienfuegos	29.99	30.06	19	29.89	10
Puerto Principe	30.00	30.07	18	29.93	15
Santiago de Cuba	29.97	30.04	18	29.90	15

WIND (MILES)

STATIONS.	Prevailing direction	Total movement, in miles	Maximum Velocity	Direction	Date
Havana	E.	7727	36	NE.	5
Cienfuegos	NE.	5090	26	E.	24
Puerto Principe	NE.	6411	33	E.	26
Santiago de Cuba	NE.	2938	25	SW.	25

S.—el 9, 25—E.—el 25, 33—E.—el 26.—Rumazon el 11 y 28. Niebla ligera el 22; densa el 24.

SANTA CRUZ DEL SUR.—Chubascos con viento fuerte del NE. el 7 y 8. Arco-íris el 13.

NUEVITAS.—Niebla ligera en la amanecida del 9. Doble arco-íris en la tarde del 22.

MANZÁNILLO.—Niebla el 18 y 30.

INGENIO "SANTA LUCÍA" (Gibara).—Halo lunar el 7. Arco-iris el 25.

SANTIAGO DE CUBA.—Velocidad, dirección y fecha de vientos de 25, ó mas, millas por hora: 25—SO.—el 25.

Informan que hubo turbonadas en las Estaciones y fechas que se expresan.

SAN CAYETANO.—El 9, 10, 11, 12, 26 y 27.

PINAR DEL RIO.—El 1º, 5, 14, 16, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 29 y 31.

GUANAJAY.—El 3, 4, 6, 8, 9, 11, 15, 17, 18, 19, 20, 26, 27, 28 y 30.

HABANA.—El 1º, 2, 6, 8, 9, 13, 15, 17, 18, 19, 20, 24, 25, 27 y 29.

CENTRAL "LIMONES" (LIMONAR.)—El 1º, 2, 4, 9, 10, 11, 13, 14, 17, 18, 19, 23, 24, 25 y 29.

CÁRDENAS.—Del 1º al 7, al SE. y S., y del 22 al 28, frecuentes, con fuertes chubascos.

ECHEVERRÍA.—Varias del 15 al 21, sin lluvia.

INGENIO "STA. GERTRUDIS" (Banagüises).—El 23, 24, 25, 26 y 27.

CASCAJAL.—El 8, 14, 16 y 18.

CIENFUEGOS.—El 1º, 2, 3, 4, 7, 8, 9, 10, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 27 y 29.

CENTRAL "SOLEDAD" (Cienfuegos).—Casi diarias del 15 al 21.

COLONIA "GUABAIRO" (Cienfuegos).—El 1º, 8, 13, 14, 16, 18, 19, 23, 25 y 27. Lejanas el 2 y 3.

CRUCES.—Descargas eléctricas el 17, 25 y 27.

SAGUA LA GRANDE.—El 1º, 3 y 6.

MORON.—El 7, 8, 10, 14, 22, 24, 25 y 26.

PUERTO PRINCIPE.—El 3, 9, 17, 18, 22, 25, 26, 30 y 31.

SANTA CRUZ DEL SUR.—El 9, acompañada de fuerte chubasco del NE.; el 13; del 15 al 21 diarias; y del 22 al 28 frecuentes al E. y S.

NUEVITAS.—El 5, 6, 7, 9, 10, 21, 25, 27, 29, 30 y 31.

MANZANILLO.—El 1º, 2, 3, 5, 7, 9, 12, 13, 14, 15, 16, 17, 17, 21, 23, 24, 25, 29, 30 y 31.

SANTIAGO DE CUBA.—El 6, 23 y 24.

GUANTANAMO.—El 7, 8, 13, 17, 23, 24, 26 y 31.

"LOS CAÑOS".—Del 1º al 7, al N. y S.

Barómetro reducido al nivel del mar, y á 0º; y corregido por gravedad.

ESTACIONES	Media	EXTREMAS			
		Máxima	Fecha	Mínima	Fecha
Habana	762.26	764.54	19	759.46	10
Cienfuegos	761.75	763.53	19	759.21	10
Puerto Principe	762.00	763.78	18	760.22	15
Santiago de Cuba	761.24	763.02	18	759.46	15

VIENTO, (METROS POR SEGUNDO)

ESTACIONES	Dirección predominante	Movimiento total en kilómetros	Velocidad máxima	Dirección	Fecha
Habana	E	12435	16.09	NE	5
Cienfuegos	NE	8192	11.62	E	24
Puerto Principe	NE	10317	14.75	E	26
Santiago de Cuba	NE	4729	11.18	SO	25

Climatological Data for Cuba, July, 1900.

STATION	PROVINCE	Elevation, feet.	Temperature in degrees Fahrenheit						Precipitation in inches			Sky			Prevailing direction of wind.	OBSERVER
			Mean.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Greatest in 24 hours.	Rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
San Cayetano	Pinar del Rio	.....	.....	--	.....	.....	.....	.....	7.15	1.95	6	13	6	12	E.	Sr. Miguel Gonzalez.
Viñales	do	.....	.....	--	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pinar del Rio	do	176	81.2	93	15	69	20	21	5.45	1.00	15	3	28	0	SE.	Sr. Dr. Eduardo Gomis.
Guanajay	do	.....	.....	--	..	64	19	..	12.53	2.80	12	10	17	4	E.	Sr. Pedro Núñez y Lostado
Havana	Havana	57	80.0	90	15	70	27	17	5.40	1.76	12	4	16	11	E.	U. S. Weather Bureau.
Batabanó	do	.....	82.3	95	16	69	19	23	6.89	1.30	11	18	13	0	SE.	Sr. Angel R. Cañas.
"Providencia" (Güines)	do	.....	86.8	96	5*	74	1	21	11.17	2.28	18	.....	.....	.....	.....	Sr. Pascual Goicoechea.
"Rosario" (Aguacate)	do	....	80.6	95	14*	66	25*	27	8.89	2.15	18	15	12	4	E.	Sr. Ramón Pelayo.
Nueva Gerona [Isle of Pines]	do	.....	.....	--	.....	--	--	--	.....	.....	.....	.....	--	.....	.....	.....
Matanzas	Matanzas	.....	.....	--	.....	--	.....	--	.....	.....	.....	.....	--	--	.....	Sr. Domingo Russinyol
Union de Reyes	do	.....	82.0	91	24	74	26	15	9.35	1.65	11	9	17	5	NE.	Felix R. Garayta.
"Limones" (Limonar)	do	.....	.....	--	.....	.....	.....	.....	16.64	2.20	18	1	17	13	S.	Sr. Eduardo Dorticos.
Cárdenas	do	.....	82.8	95	11*	69	19*	25	4.96	1.10	13	0	30	1	E	Sr. J. M. G. Lavin.
Jagüey Grande	do	.....	82.2	95	9*	68	22	25	3.31	2.10	10	3	12	16	E.	Sr. Máximo Sokol
Banagüises	do	.....	79.0	91	9*	67	23	22	7.98	2.40	10	17	14	0	NE.	Sr. Miguel Mendoza.
'Magdalena' (Campiña)	Santa Clara	.....	.....	--	.....	--	--	--	8.47	2.21	14	5	6	20	.....	Sr. E. Ferrer.
Cienfuegos	do	.....	80.8	93	22	68	19	22	6.44	1.01	24	12	19	0	NE.	U. S. Weather Bureau.
"Soledad" (Cienfuegos)	do	.....	80.0	91	3*	68	21*	22	8.93	1.77	17	0	31	0	.....	A. A. Hughes, Esq.
'Guabairo' (Cienfuegos)	do	.....	.....	.....	.....	.....	.....	.....	9.06	1.53	18	2	26	3	NE.	Capt. P. M. Beal.
Cruces	do	.....	.....	.....	.....	.....	.....	.....	5.01	2.35	8	22	9	0	.....	Sr. Dr. José Ruibal.
Sagua la Grande	do	.....	80.6	93	9*	65	10*	28	5.15	1.60	10	27	4	0	NE.	Sr. F. P. Machado.
Santa Clara	do	.. ...	80.4	95	14*	64	24	27	3.41	.70	13	12	18	1	SE.	Sr. Vicente G. Abreu.
Camajuaní	do	.....	78.8	94	14	68	9*	23	4.40	1.25	17	18	7	6	SE.	Sr. José Ma. Espinosa.
Caibarien	do	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Sr. Bernardo Escobar.
Moron, Trocha	Pto. Principe	.....	81.6	94	10*	68	26	23	2.98	1.30	9	21	7	3	NE.	Sr. Benito Grandal.
Puerto Principe	do	.....	80.4	93	22	68	25	24	3.19	2.53	13	9	16	6	NE.	U. S. Weather Bureau.
Santa Cruz del Sur	do	.....	79.9	93	28	68	24	21	3.99	1.10	7	27	1	3	E.	Sr. S. Fluriach.
Nuevitas	do	.....	82.6	94	1	72	1	22	3.65	1.75	7	20	3	8	NE.	Sr. Guillermo Ruíz.
Manzanillo	Santiago	.....	84.8	96	18*	74	2*	18	5.65	1.55	10	9	21	1	NE.	Sres. Beattie & Co.
Holguin	do	.....	80.1	95	13*	66	16*	28	1.25	.30	8	19	0	12	E.	Dr. F. A. W. Conn.
"Sta. Lucía" (Gibara)	do	.....	81.4	94	14	67	22	25	1.20	.58	6	11	17	3	NE.	Sr. Jorge J. Hernández
Santiago de Cuba	do	.....	82.7	94	23	70	26	22	1.31	.37	14	3	21	7	NE.	U. S. Weather Bureau.
Guantánamo	do	.....	81.4	98	23	67	18*	30	2.58	.80	11	12	14	5	SE.	Theodore Brooks, Esq.
"Caños" Guantánamo	do	.....	81.3	97	19	66	5*	29	3.60	2.30	5	11	9	11	SE.	Sr. Pablo Odoardo.
"Soledad" Guantanamo	do	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

*And subsequent dates.
*Tambien en fechas subsecuentes.
Climatological Data for Cuba, July, 1900.
Datos climatológicos para Cuba, en Julio, 1900.
Sky—Cielo
Station—Estación
Province—Provincia
Elevation, feet—Elevación en pies
Mean—Media
Date—Fecha
Greatest daily range—Mayor diferencia al día
Total—Total
Greatest in 24 hours—Mayor en 24 horas
Rainy days, .01 inch or more—Días de lluvia 0,01 pulgada ó más
Number clear days—Número de días despejados
Number partly cloudy days—Número de días nublados parcialmente
Number cloudy days—Número de días completamente nublados
Prevailing direction of wind—Dirección predominante del viento
Observer—Observador
do—idem

Precipitation for Cuba, July, 1900.

STATIONS.	Day of month.																													Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
San Cayetano	....	....	....	....	....	....	....	....	1.25	1.50	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	1.25	....	1.10	1.95	....	....	....	7.15
Viñales	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pinar del Rio	.80	t.	....	t.	....	....	....	.15	1.00	.45	.14	.40	.06	....	....	.08	.11	....	.86	....	t.	t.	.33	t.	.04	01	1.00	.02	....	t.	t.	5.45
Guanajay	.06	.05	.04	1.09	....	1.73	....	1.28	.36	.04	.64	....	.02	t.	.13	....	.49	2.80	1.93	.94	....	....	....	....	.04	.20	.16	.29	.10	.16	....	12.53
Havana	.21	t.	....	....	....	....	....	.04	.94	.93	.04	.32	1.03	t.	....	....	....	.02	.04	t.	....	....	t.	.03	.04	....	1.76	t.	....	t.	....	5.40
Batabanó	.40	....	....	.50	....	....	....	....	.10	....	.60	....	....	....	....	....	....	....	1.30	....	.20	.30	....	....	1.00	1.05	.50	....	....	....	.94	6.89
"Providencia" (Güines)	2.28	.28	.14	....	....	.74	.14	....	1.20	.55	.76	....	.18	....	.38	.24	1.24	.37	.72	.57	....	....	....	....	....	.90	.30	....	....	.18	....	11.17
"Rosario" (Aguacate)	.90	.25	.42	....	....	....	....	.02	.25	1.56	.10	....	2.15	.16	....	....	....	.18	.32	.36	....	....	1.40	.10	.22	.25	.15	....	....	.10	....	8.89
Nueva Gerona (Isle of Pines)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Matanzas	....	.35	t.	.18	....	.06	....	....	....	....	....	....	....	....	1.12	....	.07	.10	.32	.20	....	....	.43	....	.80	....	.24	....	....	....	....	....
Union de Reyes	.63	.03	....	....	....	....	....	.86	.70	1.00	....	1.00	1.60	....	....	....	.10	....	1.33	....	....	....	....	....	1.65	....	....	....	.45	....	....	9.35
"Limones" (Limonar)	1.60	.65	....	2.00	....	....	....	....	1.00	.85	.42	....	1.55	.50	....	....	.27	1 30	1.20	.05	....	....	.65	2.20	.70	.05	.15	....	1.50	....	....	16.64
Cardenas	.60	.25	.17	10	....	.20	....	....	....	.14	.13	....	....	.05	.09	....	....	....	1.10	....	....	....	.64	....	1.09	....	.40	....	....	....	....	4.96
Jagüey Grande	.01	....	....	.10	....	....	....	....	t.	2.10	t.	....	....	t.	t.	....	.10	.15	05	t.	t.	....	....	t.	.10	.15	.45	t.	.10	....	....	3.31
Banagüises	t.	....	....	....	....	....	....	....	.94	1.25	....	....	....	....	.40	....	....	t.	.25	.27	....	....	2.40	.25	.70	.12	1.40	....	t.	....	....	7.98
'Magdalena' (Campiña)	.30	.57	.18	.97	....	....	.02	1.52	.29	2.21	.32	....	.20	....	....	....	....	....	....	.53	....	....	....	.90	....	....	....	.28	.18	....	8.47
Cienfuegos	.38	.22	21	.36	....	t.	t.	.15	.07	.41	.06	.02	.10	t.	t.	.33	.05	.53	1.01	.02	.06	.04	.18	.75	.01	.02	.62	.05	.76	....	..	6.44
'Soledad' (Cienfuegos)	.40	....	.35	....	....	....	....	1.77	.25	.61	....	....	.50	.11	t.	.25	.35	1.05	.40	.27	....	.11	....	.31	t.	....	.70	....	1.20	.30	....	8.93
'Guabairo' (Cienfuegos)	1.53	....	.31	.30	....	.05	.05	.53	.22	.20	....	....	....	.15	.76	.23	.43	.48	.30	t.	.12	t.	t'	1.38	t.	....	1.40	....	.62	t.	....	9.06
Cruces	....	....	.03	....	....	....	....	.06	.46	....	....	....	....	....	....	....	2.35	t.	....	....	....	....	....	.08	1.19	....	.50	....	....	.31	....	5.01
Sagua la Grande	.60	....	....	....	....	....	.10	....	....	1.30	....	....	....	....	1.60	....	....	....	.10	.10	.35	....	....	....	.50	.05	....	.45	....	....	....	5.15
Santa Clara	.28	.70	....	....	....	....	.18	....	.30	.25	.15	....	....	.27	....	....	.18	....	....	....	....	....	....	....	.23	.28	.20	.27	....	.12	....	3.41
Camajuaní	....	....	.04	....	....	....	.96	.21	1.25	.17	....	....	....	.30	....	....	....	....	.01	....	.11	.03	....	.38	.52	.15	.04	.01	.11	.10	.01	4.40
Caibarien	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Moron, Trocha	....	....	....	....	....	....	.50	.07	....	1.30	.12	....	....	.50	....	....	.09	....	....	....	....	.25	....	.06	....	.09	....	....	....	....	....	2.98
Puerto Príncipe	....	....	.02	....	....	....	.01	t.	2.53	.06	t.	....	.03	....	....	....	....	.14	....	....	....	....	.01	t.	.25	.02	....	....	.02	.02	.02	3.19
Santa Cruz del Sur	....	....	....	....	....	.60	.60	1.10	....	....	....	....	47	....	....	.07	.65	....	....	....	....	....	....	.50	....	....	....	....	....	....	....	3.99
Nuevitas	....	....	....	....	t.	.10	.40	....	....	1.05	....	....	....	....	....	....	....	....	....	....	1.75	....	....	....	.15	....	.05	....	.15	....	....	3.65
Manzanillo	t.	t.	....	....	....	....	.67	1.55	....	t.	....	t.	t.	t.	....	t.	.05	....	....	....	.29	....	.52	1.15	.70	....	....	....	.50	.12	.10	5.65
Holguín	....	....	....	....	....	.30	.10	....	.15	....	....	....	....	....	....	....	....	....	....	....	.25	....	....	.07	.03	....	....	....	.17	.18	....	1.25
"Sta. Lucía" (Gibara)	....	....	....	....	....	.15	.40	....	....	....	....	....	....	....	....	....	....	....	....	....	.04	....	....	.58	.02	....	....	....	.01	....	1.20
Santiago de Cuba	t.	.01	.19	....	....	.02	.01	.08	....	....	....	....	....	....	....	....	....	....	.14	37	t.	.02	t.	.28	.04	.09	.01	.04	....	t.	.01	1.31
Guantánamo	.04	.09	....	....	....	.38	.24	.11	....	....	....	.04	....	....	....	....	....	....	....	....	....	.02	....	.33	....	....	.35	....	.18	....	.80	2.58
"Caños" [Guantánamo]	....	.07	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.30	....	.03	....	....	.55	....	....	....	....	.65	3.60

Daily precipitation for Cuba, July, 1900.
Precipitación diaria en la isla de Cuba, Julio, 1900.
Day of month.
Día del mes
t. Indicates a trace of precipitation.
t. Indica señal de haber llovido

NOTE.—A letter of the alphabet following the name of a station indicates the number of days missing from the month's report; thus, (c)—3 days.
NOTA.—Una letra despues del nombre de una Estación, indica el número de días en que faltan informes de ella: así, (c)—3 dias.

Maximum and Minimum temperatures for Cuba, July, 1900.

| STATIONS | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | | MEAN. | |
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